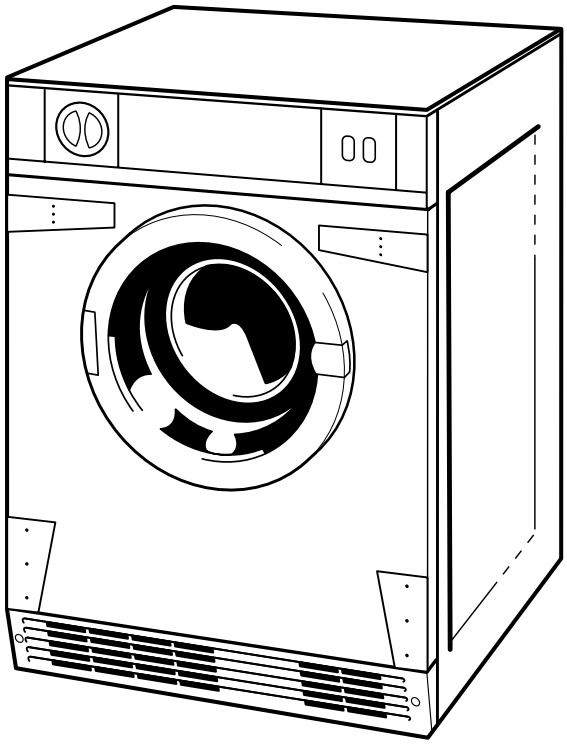
SERVICE MANUAL

WHITE KNIGHT CL43

Reversing Integrated Dryer - UK

0312 432 15001



Technical Data
Exploded Views
Wiring Diagram
Parts List

January 2003

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I Technical Data

General

Front-loading standard door opening built-in tumble dryer model. Forward and reverse tumble. Single or double element heating. Timer control. Induced airflow passes through rear ventilation inlets, over heating element, through drum rear perforations, through laundry load/lint filter, through fan and into the exhaust venting.

Door opening direction optional – left to right or right to left.

Identity

Model type, manufacturer source, date and serial number are displayed on a white label revealed when the door is open, below where the filter is located.
HA identifies the machines as having been manufactured at the Halifax factory.
The 1st & 2nd numerals represent the year of manufacture (e.g. 2004 is represented by 04)
The 3rd & 4th numerals represent the month of manufacture (e.g. March is represented by 03).
The final 6 numerals represent the main serial number of the machine.
All information from this label should be quoted in any service communication.

Mains Voltage

220/240V
50HZ

Maximum Power Consumption

2450W Approximately

Connections

Please note; plug not fitted to built-in machines. They are designed to be connected to a double pole switched spur with at least 3mm contact separation with a pilot lamp.
The appliance must be earthed

Dimensions

Height – 87cm (33.9”) to 89cm (34.7”) depending on the adjustable feet.
Width – 59.6cm (23¼”)
Depth – 53cm (21”)
Depth when rear vent hose is assembled – 60cm (⅝”)

Weight

With packing – 32.5kg approximately
Without packing – 31kg approximately

Air Flow

140m³/h with capacity laundry load

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II Components

Drive Motor

Permanent split capacitor induction – 4 pole-reversing - ⅛HP with heat and current sensitive overload protection. Trip temperature between 125°C and 155°C. Reset 90°C. Winding resistances 41.08Ω and 43.3Ω. 8µF Capacitor.

	No Load	Full Load
Power Consumption	110W approximately	225W approximately
Current Consumption	0.45A approximately	0.75A approximately
Speed	1450 RPM approximately	1350 RPM approximately

Heater

Power Consumption (determined by programme)
Low Setting – 1125W
High Setting – 2250W

Temperature Overload Cut-out (TOC) (bi-metal contacts normally closed)
Contacts open - 120°C under No Air Flow condition
Contacts reset - manual operation

Inlet (Heater) Thermostat (bi-metal contacts normally closed)
Contacts open - 142°C under restricted air flow conditions
Contacts reset - 115°C automatically

Exhaust Thermostat (bi-metal contacts normally closed)
Contacts open - 60°C under normal air flow conditions
Contacts reset - 49°C automatically

Timer

Composite programme timer.
Variable time setting up to 128mins plus 12 minutes cool-down
Clockwise 5 minutes 46 seconds (heater on except for first and last 2 seconds)
Pause 2 seconds (heater off)
Anti-clockwise 10 seconds (heater off)
Pause 2 seconds (heater off)

Drum

Drum Wrapper, Front and Rear are manufactured from Galvanized Steel
Volume: 105 litres
Capacity: 6kg dry cotton
Speed: 50-59 RPM approximately
Rotation: alternating clockwise 5 minutes 46 seconds and anti-clockwise 10 seconds

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III General Information

To assist with part identification, a key number is stated in parentheses after a specific part is mentioned so that it can be located on the Parts List for this appliance and consequently on the Exploded Views.

Basic Programme

After loading damp clothes into the dryer, the door must be closed or the programme cannot begin.

Clockwise rotation of the Control Knob (352) closes switch contacts within the Timer (211) to (a) energise the main motor (101) and (b) energise the heater (227).

The Timer switch contacts will remain closed until the Timer motor mechanism returns the Control Knob to the '0' position.

The contacts controlling heating will open 12 minutes before the Timer Knob reaches the '0' position. This is to allow the circulation of cool air for prevention of creasing to synthetic garments.

The Heat Selector Switch (216) provides options for either 1.125kW or 2.25kW heating.

Thermal Controls

Temperature Sensitive Control Switches are electrically in series with the Heater (227). In most conditions, only the Exhaust Thermostat (229) will operate to control the drying programme (automatic reset).

An additional Manual Reset TOC (Thermal Overload Control) (228) will operate when severely restricted or lost airflow conditions exist; i.e. air vents blocked, no motor action, belt has come off etc. This switch can be identified by its red coloured reset button protruding from the Back Panel (413).

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IV Adjustments and Recommendations for Dismantling

To assist with part identification, a key number is stated in parentheses after a specific part is mentioned so that it can be located on the Parts List for this appliance and consequently on the Exploded Views.

Before working on the appliance, the external cupboard door must be removed and the dryer pulled out from its recess within the cupboard.

Front Access

Access to all Control Switches is available after removal of the Top Cover (386).

For the removal of the Front Panel (376), Door Microswitch (248), Bearing Housing (440), Seal (442) and Bearings (445), the machine should be laid flat on its rear after the Top Cover (386), Top Cover Brackets (385) and Plinth (199) have been removed.

Withdraw the securing screws from the top of the Control Panel (353) together with all of the screws and fittings in connection with the Front Panel (376) and the Door Assembly (203). The Front Panel can then be detached from location lugs with the Control Panel (353) and Cabinet (196).

The Banjo Assembly (440) has a location lug with the Cabinet (196) base. It can be lifted out following disengagement of the following: Exhaust Thermostat (229), Venting Bracketry (437) and Fan Housing Cover (447).

Rear Access Upper

For removal of the combined Back Panel (413) with Heater Unit (227), Drive Belt (125), Drum (266), Drum Bearings (445) and Drum Front Seal (442).

Remove the Top Cover (386) and withdraw the main Wiring Loom connections from the Terminal Block (142) and Heater terminals. Lay the machine flat on its front, supported to take the weight off the door and controls.

With the exception of 4 screws positioned in shallow recessed channels projecting radially from the panel centre, remove all other screws in the Back Panel (413). Lift off the Back Panel (413), which will then allow access to the Heater Assembly (227), Inlet Thermostat (230) and Manual Reset TOC (228).

Lift out the Drum (266) and Drive Belt (125) after removing the Back Panel. The Drum Front Bearings (445), Drum Seal (442) and Door Microswitch (248) also become accessible at this point.

For dismantling of the Drum Rear Bearing (270), access to screws is through holes in the Drum rear. Removal of one screw and the Earth Finger provides access to the Bearing Shaft screw. **Note; it is important that the slot in the head of the shaft centre screw is filled with electrically conductive grease.**

Rear Access Lower

The Access Panel (402) to the lower rear of the dryer only needs removing for access to the Motor (101) and associated parts, the Exhaust Thermostat (229) and Venting Bracketry (437).

To remove the Motor Assembly (101), withdraw the Motor Bracket (432) securing screws from the Cabinet (196) base, remove the Screw from the Fan Cover (447) and exert anti-clockwise force to disconnect if from the Fan Housing (446). The Motor Assembly can then be withdrawn.

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